



(43) International Publication Date 17 February 2005 (17.02.2005)

PCT

(10) International Publication Number WO 2005/013680 A1

(51) International Patent Classification7: A01K 67/027

(21) International Application Number:

PCT/KR2004/002018

(22) International Filing Date: 11 August 2004 (11.08.2004)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data: 10-2003-0055326 11 August 2003 (11.08.2003)

(71) Applicants (for all designated States except US): AVICORE BIOTECHNOLOGY INSTITUTE INC. [KR/KR]; Hanlim Human Tower #707, Geumjeong-dong 1-40, Gunpo city, Kyunggi province 435-050 (KR). SEOUL NATIONAL UNIVERSITY INDUSTRY FOUNDATION [KR/KR]; #222 2nd Fl., Seoul National Research, San 4-2, Bongchun 7-dong, Kwanak-gu, Seoul 151-818 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HAN, Jae Yong [KR/KR]; 17-308 Eunmma Apartment, 316 Daechi-dong, Gangnam-gu, Seoul 135-280 (KR). LIM, Jeong Mook [KR/KR]; 308-404 Mido Apartment, 60-4 Banpo 4-dong, Scocho-gu, Scoul 137-044 (KR). LEE, Young Mok [KR/KR]; 101 Oseong Mansion, 9 lot 33 block, Top-dong Kwonseon-gu, Suwon-si, Kyunggi-do 441-440 (KR). KIM, Jin Nam [KR/KR]; 487-4 Wolgot 2-dong, Siheung-si, Kyunggi-do 429-832 (KR). HONG, Yeong Ho

[KR/KR]; 105-910 Woncheon Jugong Apartment, Woncheon-dong, Paldal-gu, Suwon-si, Kyunggi-do 442-821 (KR). HAN, Beom Ku [KR/KR]; 203-801 Guil Woosung Apartment, 43-2, 1259, Guro-dong, Guro-gu, Seoul 152-763 (KR).

(74) Agent: SESHIN PATENT & LAW FIRM; 8th Fl., KFSB Bldg., 16-2 Yeoedo-dong, Yeongdeungpo- gu, Seoul 150-010 (KR).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

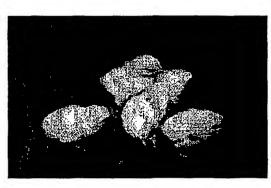
Published:

with international search report

before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: METHOD FOR PRODUCING AVIAN CHIMERA USING SPERMATOGONIAL CELLS AND AVIAN CHIMERA





(57) Abstract: The present invention relates to a method for producing an avian chimera using spermatogonial cells which comprising the steps: (a) retrieving a testis from a donor ave; (b) isolating a testicular cell population from the testis; (c) culturing the testicular cell population in a medium supplemented with a cell growth factor to obtain a spermatogonial cell population; and (d) injecting the cultured spermatogonial cell population or testicular cell population into a testis of a recipient ave to produce the avian chimera. In addition, the present invention relates to a germline avian chimera.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY